

510(k) Summary

Quattro™ Link Knotless Anchor

**510(k) Summary**

OCT 31 2012

**Cayenne Medical, Inc.**  
Quattro™ Link Knotless Anchor

## ADMINISTRATIVE INFORMATION

510(k) Number **K122314**

Manufacturer Name: Cayenne Medical, Inc.  
16597 N. 92<sup>nd</sup> St., Suite 101  
Scottsdale, AZ 85260  
Telephone (480) 502-3661  
FAX (888) 334-4079

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Scottsdale, AZ 85260  
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Telephone (480) 502-3661  
FAX (888) 334-4079

510(k) Summary Preparation Date July 31, 2012

## DEVICE NAME

Product Code **MBI**

Classification Names: **Fastener, Fixation, Nondegradable, Soft Tissue**

Trade/Proprietary Name: **Quattro™ Link Knotless Anchor**

Common Name: **Suture Anchor**

## DEVICE CLASSIFICATION

FDA has classified bone screws as Class II devices (21 CFR 888.3040). The product code is MBI, Fastener, Fixation, Nondegradable, Soft Tissue. These devices are reviewed by the Orthopedic Joint Devices Branch.

## INTENDED USE

The Cayenne Medical, Inc. Quattro Link Knotless Anchors are intended for use for the reattachment of soft tissue to bone for the following indications:

### Shoulder

- Capsular stabilization
  - o Bankart repair
  - o Anterior shoulder instability
  - o SLAP lesion repairs
  - o Capsular shift or capsulolabral reconstructions
- Acromioclavicular separation repairs
- Deltoid repairs
- Rotator cuff repairs
- Bicep tenodesis

### Elbow, Wrist, and Hand

- Biceps tendon reattachment
- Ulnar or radial collateral ligament reconstruction
- Lateral epicondylitis repair

### Knee

- Extra-capsular repairs
  - o Medial collateral ligament
  - o Lateral collateral ligament
  - o Posterior oblique ligament
- Patellar realignment and tendon repairs
  - o Vastus medialis obliquus advancement
- Iliotibial band tenodesis

### Foot and Ankle

- Hallux valgus repairs
- Medial or Lateral instability repairs/reconstructions
- Achilles tendon repairs/reconstructions
- Midfoot reconstructions
- Metatarsal ligament/tendon repairs/reconstructions
- Bunionectomy

## DEVICE DESCRIPTION

The Quattro™ Link Knotless Anchor is a sterile, manually operated, single procedure suture anchor device for reattachment of soft tissue to bone in shoulder, elbow, wrist, hand, knee, foot, and ankle procedures. The anchor is mounted on an inserter. The Quattro Link Knotless

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Anchor incorporates design features that facilitate suture anchor placement under arthroscopic or open, limited access conditions in soft tissue to bone reattachment procedures. The anchor is offered in two different configurations, with or without a self-punching (SP) metal tip (PEEK anchor body and titanium alloy tip and PEEK only). The all PEEK anchor is offered in three different sizes, 2.9mm, 4.5mm and 5.5mm. The PEEK and titanium alloy tip anchor is offered in one size, 4.5mm.

## NON-CLINICAL TESTING

Non-clinical testing data submitted, referenced, or relied upon to demonstrate substantial equivalence included. Mechanical testing was performed on the Quattro Link Knotless Anchor and Inserter. It was shown that maximum suture slip force (ultimate pull-out strength) is significantly higher than that of the predicate devices. Dimensional analysis was performed on the Quattro Link Knotless Anchor and Inserter. Product dimensional analysis met the components and product specifications.

## EQUIVALENCE TO MARKETING PRODUCT

Cayenne Medical, Inc. demonstrated that, for the purposes of FDA's regulation of medical devices, the Quattro Link Knotless Anchor is substantially equivalent in indications and design principles to predicate devices, each of which has been determined by FDA to be substantially equivalent to preamendment devices: Cayenne Medical Quattro Link (CuffLink) Knotless Anchor (K112876), Smith & Nephew FOOTPRINT Ultra PK Suture Anchor (K093897) and Smith & Nephew Bioraptor Suture Anchor (K093428). The data included in this submission demonstrates substantial equivalence to the predicate devices listed above.

The subject device Quattro Link Knotless Anchor with Inserter has the same intended use, materials, manufacturing processes, packaging, sterilization method, and shelf life as the Cayenne Medical Quattro Link (CuffLink) Knotless Anchor (K112876). The subject device Quattro Link Knotless Anchor with Inserter has identical design and technology to the Cayenne Medical Quattro Link (CuffLink) Knotless Anchor (K112876). Any differences in the technological characteristics between the subject and predicate devices do not raise new issues of safety or efficacy.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration  
10903 New Hampshire Avenue  
Document Control Room - WO66-G609  
Silver Spring, MD 20993-0002

Cayenne Medical, Incorporated  
% Ms. Keresheh Shahriari  
16597 N. 92<sup>nd</sup> Street, Suite 101  
Senior Director Regulatory Affairs and Quality Assurance  
Scottsdale, Arizona 85260

OCT 31 2012

Re: K122314  
Trade/Device Name: Quattro™ Link Knotless Anchor  
Regulation Number: 21 CFR 888.3040  
Regulation Name: Smooth or threaded metallic bone fixation fastener  
Regulatory Class: Class II  
Product Code: MBI  
Dated: October 16, 2012  
Received: October 18, 2012

Dear Ms. Shahriari:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

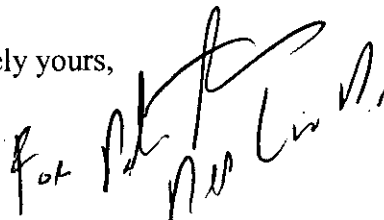
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set

forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to <http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOFFices/ucm115809.htm> for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Mark N. Melkerson", is written over the typed name and title.

Mark N. Melkerson  
Director  
Division of Surgical, Orthopedic  
and Restorative Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known): K122314

Device Name: Quattro™ Link Knotless Anchor

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510(k) Premarket Notification

Quattro™ Link Knotless Anchor

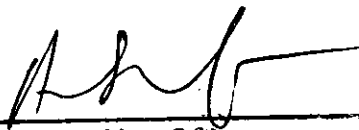
- Midfoot reconstructions
- Metatarsal ligament/tendon repairs/reconstructions
- Bunionectomy

Prescription Use   X    
(Part 21 CFR 801 Subpart D)

AND/OR Over-The-Counter Use             
(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

  
(Division Sign-Off)  
Division of Surgical, Orthopedic,  
and Restorative Devices

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